밁 S rxxx22222222222222222222222 Matches Query Match Davies C, (DAVI/) DAVIES C. (CHEN/) CHEN D. (ROCZ/) ROCZNIAK S. 05-AUG-1999; 05-AUG-1999; US6180607-B1. Homo sapiens. AAB60623 the polynucleotide construct and recovering the polypeptide from the culture medium, a polynucleotide construct encoding the kunitz-type protein and a host cell comprising the polynucleotide construct. The kunitz-type protein is used for the preparation of a medicament for the treatment of systemic inflammatory response syndrome, acute pancreatitis, shock syndrome, disseminated intravascular coagulation, hyperfibrinolytic haemorrhage, myocardial infarction, for prevention of blood loss during major surgery, cardiopulmonary bypass (CPB)-induced pulmonary injury, allergy-induced protease belease, deep vein thrombosis, emphysema, inflammatory bypas during respiratory discress syndrome, chronic inflammatory bypas discress syndrome, chronic 30-JAN-2001. vascular injury; nephrotropic; Human protease inhibitor BTL.010 Kunitz domain, SEQ ID NO:1 AAB60623 standard; protein; 58 Sequence 111 AA; represents a mutant n KEX-2 cleavage site, acid sequence being a generic sequence for a Kunitz-type protease inhibitor or a variant where the sequence is at least 80% identical to the kunitz domain of human kunitz type protease inhibitor HKI-18. Also included are an isolated polypeptide obtainable by cultivation of a host cell comprising a polynucleotide construct encoding kunitz-type protein in an appropriate growth medium under conditions allowing expression of rheumatoid arthritis, adult respiratory distress syndrome, chronic inflammatory bowel disease, and psoriasis. The present sequence represents a mutant human HKIN18 with a yeast 212L signal peptide and Example 1; Fig 8; 52pp; English. disprders. Local 5 4 52; Similarity Chen D, Conservative (first entry) 99US-00369494 99US-00369494. Roczniak S; 88.4%; expressed in yeast cells 0 Score 391; DB 6; Pred. NO. 7.2e-27; antirheumatic; Mismatches 6 Length 111; Indels

to an isolated polypeptide comprising a 51 amino Novel serine proteinase inhibitor of the Kunitz family, BTL.010 useful for treating emphysema, cystic fibrosis, adult respiratory distress syndrome, rheumatoid arthritis, organ failure and glomerulonephritis. neutral serine AAB60634). Claim 6; Col 9-10; 17pp; English. Kunitz family, The invention relates to

1 YPVRCLLPPATGPCKARIIRWYFVASVGQCNRFVYGGCRGNANNFASEQECMSSCQGS 58 0,

0

YPVRCLLPPATGSCKAWAARWYFVASVGQCNRFWYGGCHGNANNFASEQECMSSCQGS 111

Human BTL.010; neutral serine protease inhibitor; elastase inhibitor; proteinase-3 inhibitor; Kunitz domain; emphysema; idiopathic pulmonary fibrosis; adult respiratory distress syndrome; cystic fibrosis; rheumatoid arthritis; organ failure; glomerulonephritis; platelet activation; blood coagulation; neutrophil activation; neutrophil activation; angioplasty; inflammatory disease; lung injury;

N-PSDB; AAF59750 WPI; 2001-190860/19

pulmonary fibrosis, adult respiratory distress syndrome, Cystic fibrosis, rheumatoid arthritis, organ failure or glomerulonephritis. BTL.010 compositions of the invention modulate at least one physiological condition such as platelet activation, blood coagulation, neutrophil activation, or monocyte activation. BTL.010 is also useful for the prophylactic or therapeutic treatment of patients undergoing angioplasty, and for the treatment of inflammatory diseases and diseases involving lung and vascular injury. The present sequence represents the human BTL.010 protease inhibitor Kunitz domain peing novel using the Kunitz domain sequences AAB60632, and AAB60633. This sequence information was extended to provide a larger region of STL-010 protein sequence data (AAB60634) by identifying an open reading frame (ORF) which comprised DNA encoding the BTL-010 Kunitz domain fragment in a 399 bp fragment of human genomic DNA (AAF59750), corresponding to bases 16016-16414 of GenBank accession number AC004846. The entire BTL-010 Kunitz domain sequence (AAB60623) was obtained from the BTL-010 ORF-encoded sequence. The BTL-010 protein, and pharmaceutical compositions comprising it, may be used for inhibiting protease activity, particularly that of leukocyte elastase, in the prevention, treatment or amelioration of medical conditions such as emphysema, idiopathic trypsin-like and chymotrypisn-like proteases. A substantial proportion of the BTL.010 protein Kunitz domain (AAB60631) was identified via homology searching in the GenBank high throughput genomic (HTG) DNA sequence database using the Kunitz domain sequences AAB60630, and was confirmed as ily, BTL.010 (fragments given in AAB60623, AAB60631 and The BTL.010 protein is thought to preferentially inhibit proteases such as elastase and proteinase-3, relative to a novel human serine protease inhibitor of the Of.

맑 Matches Query Match Local Similarity 48; 1 YPVRCLLPPATGPCKARIIRWYFVASVGQCNRFVYGGCRGNANNPASEQECMSSCQGS 58 YPVRCLLPSAHGSCADWAARWYFVASVGQCNRFWYGGCHGNANNFASEQECMSSCQGS 58 Conservative 80.2%; 0; Score 264; DB 4; Pred. No. 6.3e-24; Mismatches 10; Indels 0 Gaps 0

Sequence 58 AA;

THE REPRESENTATION OF THE PROPERTY OF THE PROP III. 22-JAN 2003 BG71912 standard; protein; 58 AA. (first entry)

Human; protease inhibitor; kunitz; HKI-16; antiinflammatory; anticoagulant coagulant; cardiant; CBP; psoriasis; emphysema; systemic inflammatory response syndrome; acute pancreatitis; shock syndrome; authorated intravascular coagulation; hyperfibrinolytic kaemorrhage; myocardial infarction; cardiopulmonary bypags-induced pulmonary injury; rheumatoid arthritis; allergy-induced proteage release; deep vein thrombosis; adult respiratory distrass syndrome; chronic inflammatory bowel diseas Human Kunk tz protease inhibitor protein HKI-18 inflammatory bowel disease

Homo sapiens.

Location/Qualitiers

5. .55 /label= Kunitz_domain /note= "This domain \ claimed in claim 18"

WO200296938-A2